

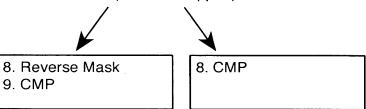
01-555

Replacement Sheet

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Shallow Trench Isolation Process Flow

- 1. Pad Oxide
- 2. Nitride: Trench Etch Hard Mask and CMP Stop Layer
- 3. Island Mask
- 4. Trench Etch
- 5. Oxide Liner: Corner Rounding
- 6. Trench Fill
- 7. Densification (Can Be Skipped)



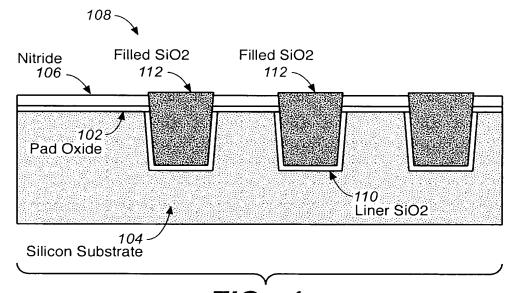
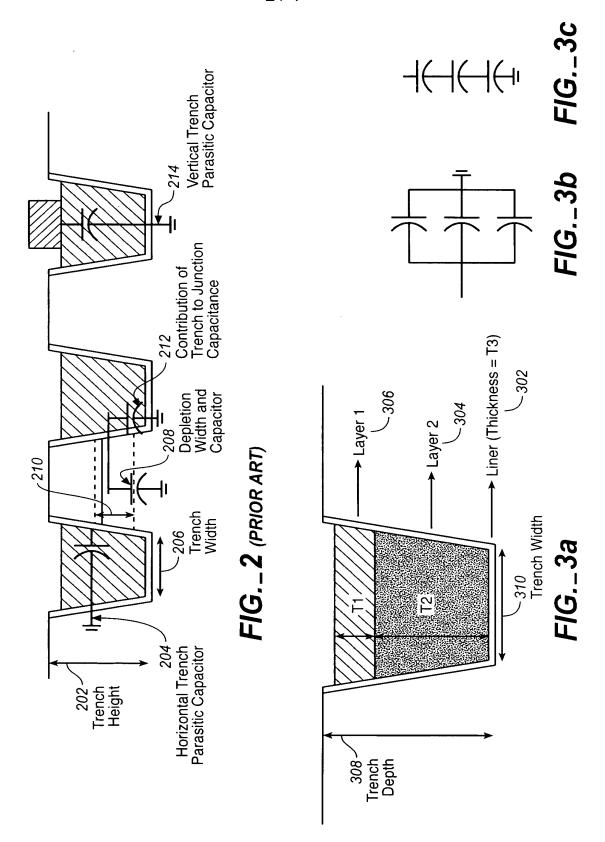


FIG._1
(PRIOR ART)

OE.

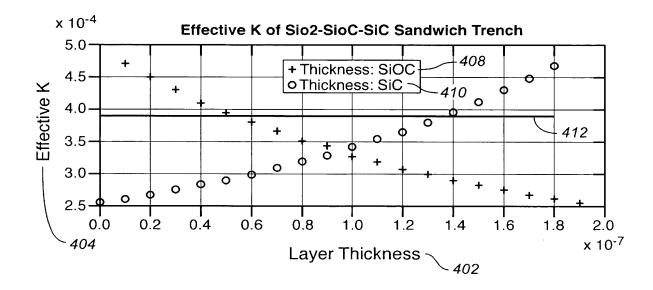
Replacement Sheet

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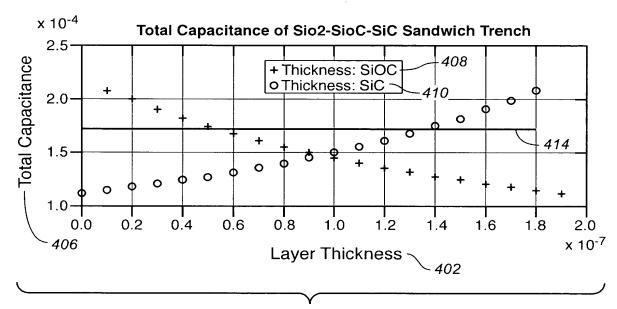
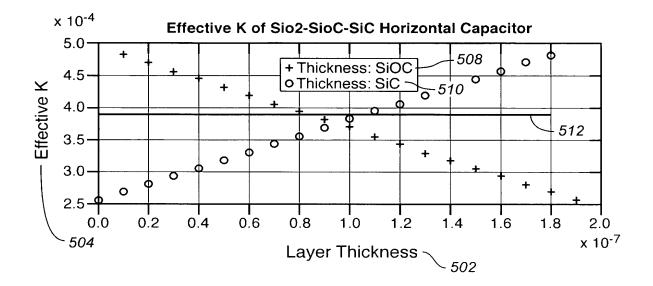


FIG._4



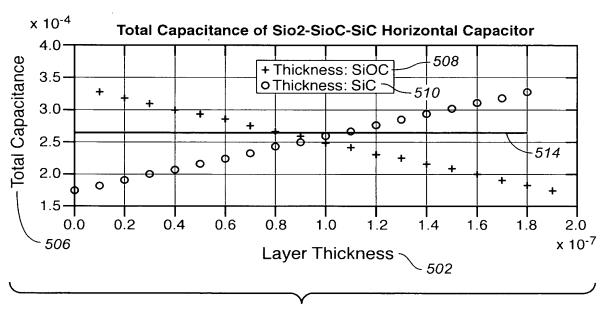


FIG._5